



Revision: #1

Purchasing Agency: JARED GARDNER

Item: SPREADER, TRUCK MOUNTED (No options allowed) Base Unit only

Vendor: 91764A RELIANCE TRAILER SALES, OF UTAH
981 W 2100 S
SALT LAKE CITY UT 84119

Internet Homepage:

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Brand/trade name: Henderson 13' 304SS Slip-in V-Box Hopper/Spreader

Price: SEE ATTACHED PRICE SCHEDULE

Terms: NONE

Effective dates: 06/21/02 THROUGH 06/21/04

Days required for delivery: 90 - 120 DAYS ARO

Price guarantee period: 1 YEAR

Minimum order: ONE UNIT

Min shipment without charges: INCLUDED IN PRICE

Other conditions: 1 YEAR RENEWAL OPTION

Revision #1: New Purchasing Agent. If you require a spreader with options, please purchase from contract MA1537

This contract resulted from bid #DG2158

This contract covers only those items listed in the price schedule. It is the responsibility of the agency to ensure that other items purchased are invoiced separately. State agencies will place orders directly with the vendor (creating a PG in Finet) and make payments for the same on a PV referencing the original PG. Agencies will return to the vendor any invoice which reflects incorrect pricing.



Material Spreader, Hydraulic Drive 7.5 cu. yd. capacity for mounting on 14' long, 9 cu. yd. dump body.

1- Unit: Henderson 13' 304SS Slip-in V-Box Hopper/Spreader Delivered \$8,153..00 /EACH

SPECIFICATIONS:

The spreaders are to be new units of current model. The equipment is to meet the following minimum specifications but is not limited as to features furnished by the manufacturer. The equipment is to have all standard features. The equipment is to be delivered assembled and ready for operation.

All warranty periods shall start after equipment has been put into service. Basic warranty shall include agreement to allow all Utah Department of Transportation mechanic shops to be approved, to complete "In-house" warranty repairs, in Utah Department of Transportation shops. The warranty shall include parts and labor reimbursement.

Equipment to meet all Federal and State safety regulations.

DETAIL SPECIFICATIONS:

Construction: Construction of the spreader shall be high grade 304 stainless steel. The body and sides shall be high grade 304, 10 gauge stainless steel and the body longitudinal shall be manufactured of 7 gauge 304 stainless steel. All bolts shall include a lock nut and two washers made of stainless steel. All bolts are to be long enough to go completely through lock nut when assembled. All welding shall be done with stainless welding wire or rod.

Dimensions: **Capacity - 7.5 cu. yd. Struck, minimum.**
Length inside - approximately 13 ft.
Length outside front to latch bar - 13 ft. 6 in. maximum.
Height overall - approximately 50 in.
Width inside - approximately 78 in.
Width overall (including spill guards) - 96 in. approximately.

Body "V" type hopper body with sides slopped approximately 45 degrees. Body supported by 6 (minimum) triangular braces extending full height. Body to have two braces between sides and top.

Hopper Screens The hopper screens will be constructed of (3/8") diameter steel rod inter- laced through screen (1/4" x 1-1/2") flat bar forming an open grating size approximately (2-1/2" x 2-1/2")



Additional (3/8") rod will be installed on the top of the flat iron section of the screens to form approximately (2-1/2" x 5") openings, and will form a stacked double rod structure on every other horizontal rod section. The mesh will be reinforced by using (2" x 3/8") angle iron with the edge supports reinforced with (3/8" x 1") flat bar.

Minimum of three hinges will be paced over the center support in order that the screens may be opened fully vertical from either side. Four screens minimum per side. Screens to be high pitch design with an 18" height above hopper top, with adequate supports. To be discussed at the paper pilot.

- Spill Guards** To have 304 stainless steel vertical spill guard at rear, bolted to hopper, extending 19" in. above body. Rear spill guard to have the stainless steel angle iron braces extending 1 ft. down on hopper. Rear spill guard to have intrigal stainless steel air deflector for light bar with mounting plate for rotator. To have 304 stainless steel spill guard at front sloped forward 30 degrees from vertical to 19 in. above hopper with triangular braces on each side. To have taper cut side spill guards starting at side rails and sloping down at 45 degrees to total outside width of 96 in. To be supported by six (6) flanged gussets on each side all 304 stainless steel.
- Discharge Gate** The discharge gate shall be made of 10 gauge 304 stainless steel and ruler shall be provided at the rear of hopper. The screw type jack with grease certs installed and a extended handle with Teflon U-joint for easy cranking.
- Tie Downs** To have (2) tie downs for dump installation. To be ratcheting nylon strap binders attached with 3/8 in grade (8) anchor chain or approved equal. Brackets to be located 2 ft. back from front on each side of hopper. Brackets to be positioned to pull at state specified angle. Six (6) usable Kinedyne #4004 strap with "D" ring to be supplied for each binder. An intrigal adjustable mechanism to be provided at front of spreader for centering in dump body. To be discussed at paper pilot.
- Mounting Bar** To have 4" x 4" x 1/2" angle iron bar at the rear with 1-1/4" round pins to engage tailgate latches. Round pins to be of cold roll material and field welded to fit each individual truck for a precision fit. Mounting bar to be bolted and braced to spreader frame. Mounting bar must be below truck bed floor so that spillage can be washed from bed. Mounting bar must be wide enough not to allow sander shifting.
- Skid** To have 6 in piece of inverted channel welded to each end of bottom frame channel.
- Lifting Eyes** To have four (4) 1/2 in stainless steel D-ring lifting eyes and one (1) center lifting eye. Manufacture to locate center eye to pick up spreader level with all components attached. Hopper screens must fully open with center lifting eye installed.
- Conveyor** To be a minimum of 20 in. wide. To have 3/16" (minimum) one piece abrasion resistant floor. Conveyor to have 3/8" in. x 1-1/2 in. flights at 4 in. spacing, welded to pintle chains. Chains to be Allied Lock AL667X or equal. Chains to have full length guards so that only flights are



exposed to material in hopper. Sprockets are to be eight (8) tooth on 2 in. shaft. Three (3) two ply rubber belting wipers to be provided for cleaning both sides of conveyor chain. A front seal strip is to be provided.

Bearings

Are to be self-aligning 2 in. take-up style bearings. Dodge # 131177 in a 304 stainless steel frame. Bearings to have grease leads ran to manifold at rear. At the rear, clear of the pre-wet tanks the slide mounted, spring loaded with adjusting screw slack adjustment can be easily adjusted from rear of spreader. To have 3 in. minimum travel. To be discussed at paper pilot.

Grease Manifold

Grease manifold to include leads for conveyor idler shaft. Manifold to be accessible from ground level at rear of truck. Leads to be Grease Jockey Brand 1/4" minimum i.d, non-corrosive tubing. Tubing must be secured to hopper to prevent chaffing. Tubing to be filled with grease before delivery.

Conveyer Drive

To be cast iron gearbox with 50:1 gear reduction, 2" output shaft, oil bath, with antifriction bearings on input and output shafts and direct coupled motor. Guard to be installed over input shaft. Gearbox cover to be rotated one bolt hole to rear so oil level check keeps oil level above race.

Hydraulic Drive Motor

Motor to be Char-Lynn 101-1027-007.

Spinner& Chute

Spinner to be 304 stainless steel, minimum diameter 18". With six (6) radial, stainless steel replaceable fins.
Hydraulic spinner motor to be located above disk in state approved manner. To be discussed at paper pilot.
Spinner chute to have three (3) adjustable and one (1) front fixed deflector.
Rear deflector to overlap side deflectors in all positions.
Spinner chute to include two (2) spring loaded adjustable internal baffles.
Spinner disc to be 32 in. below truck bed floor.
Spinner disc to be attached to motor shaft by a 3/8 in. grade (8) bolt and locknut.
Spinner to be supplied with Parker brand hydraulic disconnects and Parker brand 90 degree elbows at the spinner motor.

Hoses

Hydraulic pressure hose to be Parker 431 with crimped fittings. Hydraulic return hose to be Parker 431 with crimped fittings. Hoses are to be run from motors to bulkhead fittings at one location on lower right of spreader. Hoses are to be clamped to prevent chaffing and accumulation of ice. Five foot hoses will be connected to the bulkhead fittings and have Parker brand hydraulic quick couplers as follows:

Conveyor pressure: Parker FF-751-12Fp with # 12 hose.
Spinner pressure: Parker FF-752-12Fp with # 12 hose.



Combined return: Parker FF1001-16FP with # 16 hose.
No galvanized or black pipe fittings are acceptable.

- Lights** To have three (3) light ID. cluster shielded, two (2) in. stop, turn, tail lights shielded, two (2) red clearance lights shielded and four (4) red reflectors. Lights to be on rubber mounted bases, bracket not to be metal unless stainless steel. To have amber light bar with two (2) rotating elements. Target Tech Highlighted SAE-WW3-93. Light bar to be mounted near center at rear of sander, with protective cover over light bar. Must be able to service and repair without removing light bar. To have white light located to illuminate spreader discharge on left side. Light to have 12 ga. Cylindrical shield held in place by pivot bolt. Shield to extend 3 in. below light. Light shield assembly to have mounting that provides adjustment in two (2) directions.
- Wiring** Wiring from lights to junctions box at lower left rear to be Betts snap seal system. Wiring to be clamped to prevent chaffing, with no sharp bends, with moisture proof connections. All wiring must be jacketed cable, individual wires ran through tubing is unacceptable. No splices in wires. To have seven (7) foot, seven (7) conductor, 14 ga. Minimum, corrosion resistant molded type cable with molded plug, from junction box to truck chassis. To be "Bob-Tail" product. Phone (403) 272-0318.
- Painting** All stainless steel metal shall be left unpainted. Carbon steel components shall be powder coated.
- Identification** Each unit shall have a stainless steel metal tag permanently attached to upper left rear, below rear spill guard, with the following information: manufacturer's name, year of manufacture, model number and serial number. Each unit shall have the U.D.O.T. 5 digit unit number in 2 in. high numbers located below manufacture's tag. The unit numbers will be specified on purchase order when issued.
- Option** **Hydraulic pre-wetting de-icing system.** **@ \$2,571.00**
- Hydraulic pre-wetting de-icing system, to be pre-wetting capable of maintaining a consistent ratio of liquid salt brine or max chloride to a pre-determined granular deicing material output. The system will operate in connection with ground speed oriented spreader controls, providing a chemical flow at vehicle speed under 55 mph. The de-icing systems tanks are to be mounted on the V-Box spreader so as not to interfere with the loading or unloading of the spreader on the trucks. The hydraulic system housing is mounted so as to be easily accessible during operation, and is connected to the truck hydraulic system via two (2) hoses. All mounting brackets for the spray system components are to be 304 stainless steel. The chemical pump outlet is connected to the fixed spray nozzles by nylon reinforced PVC hose, to allow for proportional calcium chloride adjustments. To have two (2) 135 gallon minimum saddle tanks, constructed of H.O.P.E. and UV stabilized. The tanks to have anti-slosh baffles. The tanks are to be properly vented. To have four (4) brass nozzles designed to maintain a 120 degree fan spray throughout the system's chemical flow rate. To have an easy removable filter on the system. To have a low level indicator light inside of cab, and an automatic pump shut off to prevent pump failure when out of fluid. Plumbing to be able to fill tanks from the top through a 4 in. minimum fill cap and fill units from the bottom of the



tanks through the drain valve. Plumbing to withstand a 50 G.P.M. pump. Quick couplers for easy hookup and disconnect. Filling process to fill tanks separate or together from one side. Crossover pipe large enough to fill both tanks approximately at the same level when filling.

Option	Spinner chute to be capable of being swung up and out of the way for unloading hopper without the use of tools. A winch with coated wire rope shall be provided to facilitate easy raising of spinner chute. Winch shall have a anti-backlash feature for operator safety.	@ \$115.00
Option	Complete stainless steel spinner chute.	@ \$578.00
Option	Stainless steel spinner with replaceable fins.	@ \$ 70.00
Option	135 gallon saddle tank for pre-wet system.	@ \$755.00
Option	Complete sander chain replacement.	@ \$349.00

Parts & Service

Vendor shall list source of parts and service of proposed equipment. Service center shall be located in the Salt Lake City area, consideration will not be given to bidders unable to satisfy the Utah Department of Transportation or the Division of Purchasing as to the adequacy of their facilities and the availability of replacement parts.

Training

All training costs to be included in bid.
The vendor will provide two (1) day of training in two (2) locations in the State of Utah.

Delivery

Delivery is to be within 120 days of receipt of award. Delivery date will be considered in evaluating bids. Delivery must include dealer's invoice, a copy of warranty, replacement filters and operator manual including parts manual for each unit delivered.

Invoices will not be approved for payment until all of the required documentation and manuals have been received.

(FOR AGENCY USE ONLY) - FINET COMMODITY CODE (S):



STATE OF UTAH CONTRACT NUMBER: **MA1536**

July 22, 2002

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7656600000 - SPREADERS, TRUCK MOUNTED (FOR AGGREGATES, ICE CONTROL MATERIAL.)

REPORTS:

THE CONTRACTOR WILL SUBMIT YEARLY REPORTS TO THE STATE PURCHASING AGENT SHOWING QUANTITIES AND DOLLAR VOLUME OF PURCHASES BY EACH AGENCY AND POLITICAL SUBDIVISION. THIS REPORT WILL BE DUE BY MARCH 31ST OF EACH YEAR.